			NY.
	Application No.	Applicant(s)	
	09/657,386	YOSHIHARA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Prasad R Akkapeddi	2871	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not include on will be mailed in due	ed course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>09/02/2004</u> .			
2. X The allowed claim(s) is/are 1,3-5,7-9,11-13 and 15-17.			
3. The drawings filed on <u>08 September 2000</u> are accepted by	y the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority uses a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application No.		tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a repl MENT of this application.	y complying with the rec	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a)  including changes required by the Notice of Draftspers	son's Patent Drawing Review ( PTC	0-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			lote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application (PTC	D-152)
<ol> <li>Notice of Preferences Great (110-032)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. ☐ Interview Summar	* * * * * * * * * * * * * * * * * * * *	, 102)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail D	ate	
Paper No./Mail Date4.   Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Staten	nent of Reasons for Allo	wance
of Biological Material	9. ☐ Other	Tent of Reasons for Allo	Wance
			*

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## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

The application has been amended as follows:

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The title is changed as follows: "Liquid crystal display having a spontaneous polarization".

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## Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/03/2004 has been entered.

## Allowable Subject Matter

- 3. Claims 1, 3-5, 7-9, 11-13 and 15-17 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

A search of the prior art did not disclose a liquid crystal display comprising a combination of structural elements, more specifically:

- (a) The spontaneous polarization of the liquid crystal is a magnitude of not more than 1/2 of a quantity of charge that is injected into a liquid crystal element corresponding to a pixel when the maximum driving voltage is applied to the liquid crystal element when the switching element is turned on, which is a relatively short period in which the spontaneous polarization barely responds, and
- (b) The liquid crystal has a relative dielectric constant of not less than 3, and not being affected by the spontaneous polarization.

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The previously cited prior art by Nishi et al. (U.S.Patent No. 5,541,747) is silent on the maximum driving voltage and also does not teach a specific value of not less than 3 to the relative dielectric constant that is not being affected by the spontaneous polarization.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prasad R Akkapeddi whose telephone number is 571-272-2285. The examiner can normally be reached on 7:00AM to 5:30PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Prasad R Akkapeddi, Ph.D Examiner Art Unit 2871

TARIFUR R. CHOWDHURY
PRIMARY EXAMINER